

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-742 REV. E AND
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D412-742 REV. 4
REF FAA STC: SR01583SE
REF CANADIAN STC: SH05-37
REF EASA STC: EASA.IM.R.S.00126

1.0 PURPOSE

The purpose of this DART Service Instruction is to provide a repair procedure to replace spinning AELS-1032 inserts with MS21075L5 Floating Nut Plates on D412-742-011/-013 Float Skid tubes in locations where the D3391-013/-023 Mid Tube Assembly overlaps the D3391-015/-025 Aft Tube Assembly as shown in Figure 1.

This modification has been incorporated into D412-742-011 @ CHG008 and D412-742-013 @ CHG008

2.0 INSTALLATION

Note 1: Disassembly of the D3391-015/-025 Aft Tube Assembly from the D3391-013/-023 Mid Tube Assembly is required prior to completion of this repair. Disassemble in accordance with ICA-D12-742.

Note 2: When drilling holes for the Floating Nut Plate, DART recommendation is to use a Nut Plate Drill Jig to ensure drilled holes are well aligned and square for ease of installation.

- 2.1 Drill out AELS-1032 Inserts (Qty 10) located in D3391-015/-025 Aft Tube Assembly using a $\varnothing 0.375$ drill in locations shown in Figure 1. With reference to Note 2, add additional $\varnothing 0.129$ countersunk holes (Qty 2) per Detail A.
- 2.2 Increase the diameter of affected thru holes in D3391-013/-023 Mid Tube Assembly with a $\varnothing 0.375$ drill bit, as shown in Figure 1.
- 2.3 Touch up affected areas with chemical film material (Alodine 1200 or 1201) per MIL-C-5541.
- 2.4 Install MS21075L5 Nut Plate (Qty 10) using MS20601AD4W4 (Qty 12) in the six (6) most forward holes and MS20601AD4W9 (Qty 8) in the four (4) aft holes. It is acceptable to replace MS20601AD4 rivets with longer or shorter rivets as required.
- 2.5 Increase diameter of affected wearpad holes on D4095-043/-045 to $\varnothing 0.375$
- 2.6 Re-install D3391-015/-025 Aft Tube Assembly in accordance with ICA-D412-742 Section 32.9. Install D4095-043/-045 Wearshoes using AN5C7A Bolts (Qty 10) and NAS1149C0532R Washers (Qty 10) in locations corresponding to this modification.

A	NEW ISSUE	WM	15.11.27
REV.	DESCRIPTION	BY	DATE
DESIGN	AP	DART AEROSPACE USA, INC EUGENE, OR	
DRAWN	WM		
CHECKED	ASS	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9733	SHEET 1 OF 3
APPROVED	[Signature]	TITLE	SCALE
DE APPR.	[Signature]	SKIDTUBE INSERT REPAIR	NTS
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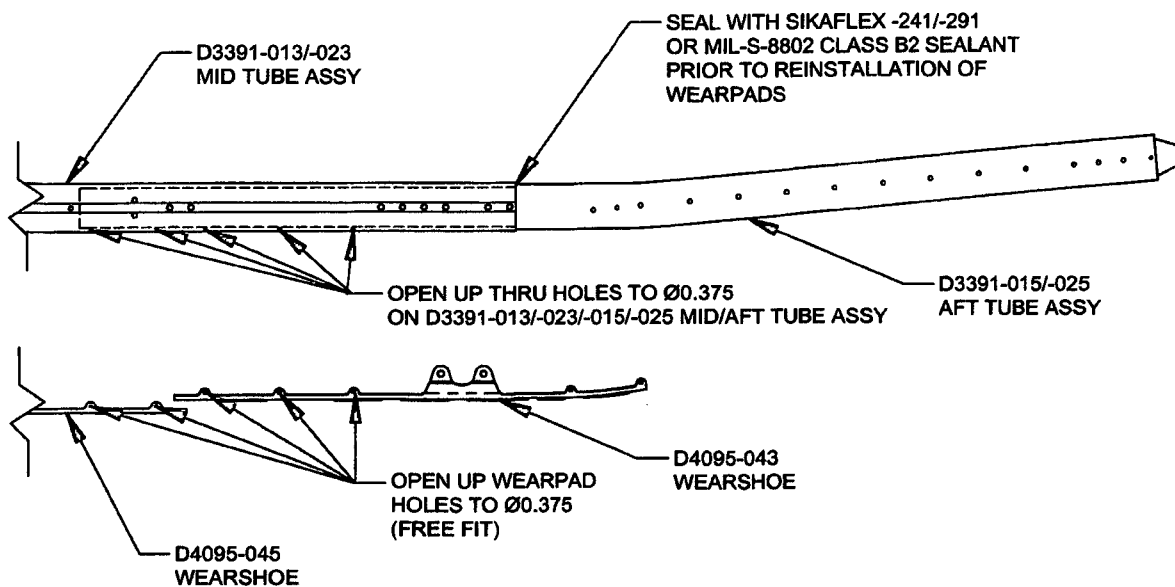
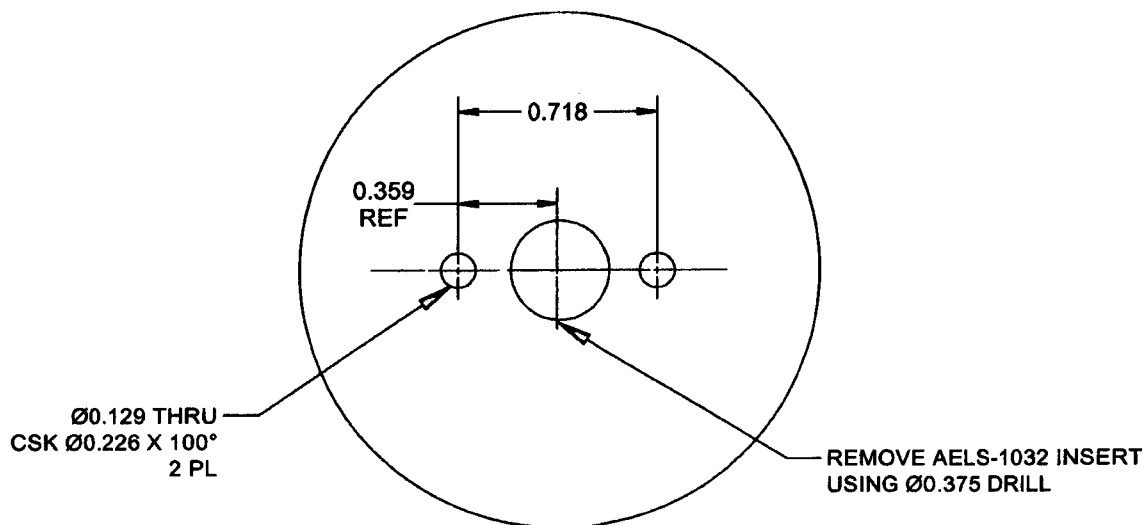


FIGURE 1 - AFFECTED LOCATIONS
(Aft section of D412-742-XXX Assy shown)



DETAIL A
(10 PLACES)

DESIGN	AP	DART AEROSPACE USA, INC EUGENE OREGON	
DRAWN	WM		
CHECKED	AJS	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9733	SHEET 2 OF 3
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3.0 PARTS LIST

QTY -011	PART NUMBER	DESCRIPTION
1	DSI9733-011	SKIDTUBE REPAIR KIT
10	AN5C7A	BOLT
12	MS20601AD4W4	RIVET, BLIND
8	MS20601AD4W9	RIVET, BLIND
10	MS21075L5	NUT PLATE, FLOATING
10	NAS1149C0532R	WASHER

4.0 WEIGHT AND BALANCE

There is negligible weight and balance change associated with this modification.

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DRAWN	WM	
CHECKED	ASS	DRAWING NO. REV. A
MFG. APPR.	N/A	DSI 9733 SHEET 3 OF 3
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